



MONTGOMERY WATSON

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1007

MONTHLY STATUS REPORT

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA – Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

EPA Region 5 Records Ctr.



248028

Report Date: November 13, 1997

Client: Forest Preserve District – DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E.
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

WGB

Reporting Period: October 1997

Progress Made This Reporting Period and Documents Submitted:

- During October 1997, Montgomery Watson continued construction of the Leachate Collection System (LCS) at the Blackwell Landfill. Construction Progress Meetings were held on October 1, 8, 15, 22, and 29, 1997. Minutes of these meetings are attached.
- On October 6, 1997, Montgomery Watson completed installation of five additional groundwater monitoring wells on the west and southwest sides of the Blackwell Landfill for inclusion into the Quarterly Groundwater Monitoring Program.
- In an October 8, 1997 letter, the U.S. EPA provided comments on the proposed investigation of the North Stormwater Collection Pipe and surface water sampling of Sand Pond (Montgomery Watson, Addenda to Field Sampling Plan, August 28, 1997). Montgomery Watson has requested a conference call with the Agencies to discuss the comments in the U.S. EPA response letter.

- Analytical results from the September 23, 1997 sampling of water from manhole MH-20 are currently undergoing validation. The validated results will be submitted to the Agencies in November 1997.

Data Transmitted With This Report:

- None

Agency Reviews/Approvals Pending:

- Review/approval of Montgomery Watson's August 14, 1997 partial response letter to Agency comments on the Final LCS Expedited Final Design Report.
- Review/approval of Montgomery Watson's September 9, 1997 construction clarification letter regarding backfilling LCS trenches.
- Review/approval of Montgomery Watson's September 24, 1997 Addendum No. 3 to the May 1997 Final Revised LCS Expedited Final Design Report.

Problems or Potential Problems, and Recommendations:

- None

Upcoming Activities Planned:

- The first round of the quarterly groundwater sampling required by the approved July 1997 Revised Predesign Report is scheduled to begin during the first week of November 1997.
- A conference call will be scheduled with the Agencies regarding the U.S. EPA's August 20, 1997 response letter on the proposed investigation of the North Stormwater Collection Pipe and surface water sampling of Sand Pond. The investigation of the North Stormwater Collection Pipe and Sand Pond will be scheduled upon Agency approval of a proposed scope of work.
- The draft O&M Plan will be submitted to the U.S. EPA in November 1997.
- A Technical Memorandum is being prepared to document the installation of five additional groundwater monitoring wells and the additional well integrity investigations undertaken prior to the first round of the Quarterly Groundwater Monitoring Program.
- The literature review for the Arboreal Impact Investigation will begin in November 1997.

Personnel Changes:

- None to report.

Analytical/Laboratory:

- None to report.

Schedule:

The schedule of deliverables to U.S. EPA, to date, is shown below.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
1. Draft Expedited LCS Work Plans and Pre-Final Design Plans and Pre-Final Design	April 22, 1996	April 17, 1996
2. Draft Predesign Investigations and Cap Repair Work Plans	April 22, 1996	April 19, 1996
3. Final Predesign Investigations and Cap Repair Work Plans	—	August 15, 1996
4. Final Predesign Investigation and Cap Repair Work Plans	May 31, 1996 or as amended by Work Plan approval	July 3, 1996
5. Technical Memorandum on Predesign Investigation	—	January 10, 1997
6. Expedited LCS Final Design	As soon as possible after receiving U.S. EPA comments on the Work Plan and Pre-Final Design	February 12, 1997
7. Predesign Report	—	April 10, 1997
8. Revised Expedited LCS Final Design	—	May 2, 1997
9. Final Cap Repair 100% Design Report	—	June 3, 1997
10. Award Contract(s) for the Response Actions	As established in the schedule in the approved Cap Repair Final Design	June 26, 1997
11. Pre-Construction Inspection and Meeting	—	July 15, 1997
12. Revised Predesign Report	—	July 25, 1997
13. Deed Restriction	—	August 5, 1997
14. Initiate Construction of Response Actions	Fifteen (15) days after Pre-Construction Inspection and Meeting	August 4, 1997

DELIVERABLE	TARGET DATE	SUBMITTED DATE
15. Completion of Construction	In accordance with the construction schedule in the approved Final Design	
16. Pre-Final Inspection	No later than fifteen (15) days after completion of construction	
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	
19. Final O&M Plan	No later than Pre-Final Inspection	
20. Completion of Work Report	Sixty (60) days after Final Inspection	

cc: Rick Lanham – Illinois Environmental Protection Agency
 Manoj Mishra – Tetra Tech EM, Inc.
 Jerry Hartwig – Forest Preserve District of DuPage County
 Kurt Lindland, Assistant Regional Counsel – U.S. EPA

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MONTHLY STATUS REPORT

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA – Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

JAN 09 1998

Report Date: January 7, 1998

Client: Forest Preserve District – DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E.
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

Reporting Period: November 1997

Progress Made This Reporting Period and Documents Submitted:

- During November 1997, Montgomery Watson continued construction of the Leachate Collection System (LCS) at the Blackwell Landfill. Construction Progress Meetings were held on November 5, 12, 19, and 26, 1997. Minutes of these meetings are attached.
- From November 3 through November 11, 1997, Montgomery Watson completed the first round of the Quarterly Groundwater Sampling as required by the approved July 1997 Revised Predesign Report.
- On November 10, 1997, a conference call was held between the FPD of DuPage County, U.S. EPA, and Montgomery Watson. The conference call was held in response to the U.S. EPA October 8, 1997 comment letter on the proposed scope of the subsurface soil investigation of the North Stormwater Collection Pipe and surface water sampling of Sand Pond. Based upon the conference call discussions, the FPD agreed to submit a Revised Addenda to Sampling Plans.

- On November 12, 1997, Montgomery Watson collected a composite sample of excavated construction demolition debris from the dripleg DL01 excavation. The sample was analyzed for waste characterization, and analytical results are attached.

Additional Data Transmitted With This Report:

- A summary of detected analytical parameters (validated) from the analysis of groundwater samples collected from MH-20 on September 23, 1997 is provided in the attached Table 1.

Agency Reviews/Approvals Pending:

- None

Problems or Potential Problems, and Recommendations:

- None

Upcoming Activities Planned:

- Submittal of Revised Addenda to Sampling Plans for the investigation of the North Stormwater Collection Pipe and Sand Pond. These investigations will be scheduled upon Agency approval of the Revised Addenda (submitted on December 4, 1997).
- Submittal of the draft O&M Plan (submitted on December 5, 1997).
- A Technical Memorandum is being prepared to document the installation of five additional groundwater monitoring wells and the additional well integrity investigations undertaken prior to the first round of the Quarterly Groundwater Monitoring Program.
- Data validation of the analytical results from the first round of the groundwater quarterly sampling event undertaken from November 3 through November 11, 1997.
- Continuation of a literature review for the Arboreal Impact Investigation.

Personnel Changes:

- None to report.

Analytical/Laboratory:

- Groundwater samples collected from manhole MH-20 have been analyzed by First Environmental Laboratories in accordance with the August 1996 QAPP for Predesign Investigative Activities. A summary of validated analytical results is submitted within this monthly status report.
- A sample of construction demolition debris was analyzed for the waste characterization, and analytical results are attached.

Schedule:

The schedule of deliverables to U.S. EPA, to date, is shown below.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
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7. Predesign Report	—	April 10, 1997
8. Revised Expedited LCS Final Design	—	May 2, 1997
9. Final Cap Repair 100% Design Report	—	June 3, 1997
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13. Deed Restriction	—	August 5, 1997

DELIVERABLE	TARGET DATE	SUBMITTED DATE
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16. Pre-Final Inspection	No later than fifteen (15) days after completion of construction	
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	
19. Final O&M Plan	No later than Pre-Final Inspection	
20. Completion of Work Report	Sixty (60) days after Final Inspection	

cc: Rick Lanham – Illinois Environmental Protection Agency
Kostas Dovantzis – Tetra Tech EM, Inc.
Jerry Hartwig – Forest Preserve District of DuPage County
Kurt Lindland, Assistant Regional Counsel – U.S. EPA

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Table 1
Manhole MH-20 Detected Analytical Results
Blackwell Landfill
DuPage County, Illinois

Analyte	BW-GW MH20-01 (sample)	BW-GW MH20-91 (duplicate)	BW-TB MH20-01 (trip blank)	BW-FB MH20-01 (field blank)	MCLs ⁽¹⁾
Inorganics ⁽²⁾	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Barium	0.385	0.358	-	<0.002	2
Iron			-	<0.01	0.3
Manganese			-	<0.001	0.05
VOCs	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Benzene			<5.0	<5.0	5

Notes:

- (1) Bolded and shaded value indicates exceedance of MCL.
(2) Inorganic detections listed exclude major minerals.

Footnote:

- (1) MCL = Maximum Contaminant Levels - U.S. Office of Water, Drinking Water Regulation and Health Advisory, October 1996.

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**First
Environmental
Laboratories, Inc.**

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

November 20, 1997

Mr. Brian Griesemer
MONTGOMERY WATSON
2100 Corporate Drive
Addison, IL 60101

Dear Mr. Griesemer:

Enclosed are the analytical results for the sample received by First Environmental Laboratories, Inc. on November 12, 1997. This sample was analyzed for various waste characteristic parameters.

PROJECT SUMMARY

Analyses were performed in accordance with the methods found in the USEPA publication: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, July, 1992.

All QA/QC documentation and raw data will remain on file for future reference.

It has been a pleasure providing you with analytical services, and we look forward to working with you again in the future. If you have any questions regarding this report, or need additional information, please contact me at (630) 778-1200.

Sincerely,

William H. Mottashed
Project Manager



**First
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Laboratories, Inc.**

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IEPA Certification #100292

Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.051801
Sample Number: 46231
Sample Description: BW-CDLS01-01

Date Received: 11/12/97
Date Taken: 11/12/97
Date Reported: 11/20/97

Analyte	Result	Units	Date Analyzed	Method
Flash Point (open cup)	No Flash @	212°F	11/13/97	1010M
pH @ 25°C, 1:10	7.77	units	11/17/97	9045C
Paint Filter	Liquid Not Present		11/13/97	9095
Phenol	<0.25	mg/kg	11/18/97	9065
Cyanide, Total	<0.10	mg/kg	11/18/97	9010A
Sulfide, Total	<0.5	mg/kg	11/18/97	376.2

TCLP Metals

Arsenic	<0.002	mg/L	11/18/97	6010A
Barium	<1.0	mg/L	11/18/97	6010A
Cadmium	<0.005	mg/L	11/18/97	6010A
Chromium	<0.001	mg/L	11/18/97	6010A
Lead	0.004	mg/L	11/18/97	6010A
Mercury	<0.0005	mg/L	11/17/97	7470A
Selenium	<0.010	mg/L	11/18/97	6010A
Silver	<0.001	mg/L	11/18/97	6010A



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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.051801
Sample Number: 46231
Sample Description: BW-CDLS01-01

Date Received: 11/12/97
Date Taken: 11/12/97
Date Reported: 11/20/97

Analyte	Result	Units	Flags
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TCLP Volatile Organic Compounds Method 8260A

Analysis Date: 11/18/97

Benzene	< 0.050	mg/L	
Methyl ethyl ketone (MEK)	< 0.100	mg/L	
Carbon tetrachloride	< 0.050	mg/L	
Chlorobenzene	< 0.050	mg/L	
Chloroform	< 0.050	mg/L	
1,2-Dichloroethane	< 0.050	mg/L	
1,1-Dichloroethene	< 0.050	mg/L	
Tetrachloroethene	< 0.050	mg/L	
Trichloroethene	< 0.050	mg/L	
Vinyl Chloride	< 0.100	mg/L	

TCLP Base-Neutral/Acid Compounds Method 8270B

Preparation Date: 11/18/97

Analysis Date: 11/18/97

1,4-Dichlorobenzene	< 0.10	mg/L	
2,4-Dinitrotoluene	< 0.10	mg/L	
Hexachlorobenzene	< 0.10	mg/L	
Hexachlorobutadiene	< 0.10	mg/L	
Hexachloroethane	< 0.10	mg/L	
o-Cresol	< 0.10	mg/L	
m&p-Cresol	< 0.10	mg/L	
Nitrobenzene	< 0.10	mg/L	
Pentachlorophenol	< 0.50	mg/L	
Pyridine	< 0.50	mg/L	
2,4,5-Trichlorophenol	< 0.10	mg/L	
2,4,6-Trichlorophenol	< 0.10	mg/L	



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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.051801
Sample Number: 46231
Sample Description: BW-CDLS01-01

Date Received: 11/12/97
Date Taken: 11/12/97
Date Reported: 11/21/97

Analyte	Result	Units	Flags
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TCLP Pesticides Method 8081

Preparation Date: 11/18/97
Analysis Date: 11/19/97

Chlordane	< 0.005	mg/L	
Endrin	< 0.001	mg/L	
Heptachlor	< 0.005	mg/L	
Heptachlor Epoxide	< 0.005	mg/L	
Lindane	< 0.005	mg/L	
Methoxychlor	< 0.005	mg/L	
Toxaphene	< 0.01	mg/L	

TCLP Herbicides Method 8150B

Preparation Date: 11/18/97
Analysis Date: 11/19/97

2,4,-D	< 0.0012	mg/L	
2,4,5-TP (Silvex)	< 0.0017	mg/L	

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COMPANY NAME: Montgomery Watson
ADDRESS: 2100 Corporate Drive
PHONE: (630) 691-5000 FAX: (630) 691-5133
CONTACT NAME: Walter Buehler
SAMPLED BY: Brian Griesener

Project I.D. 1252008. 051801
Send Report To: Brian GRIESEMER

MATRIX

MATRI
TCLP VOC;
TCLP

V_{OC}
 $TCLP SVOCs$
 TCL

VOCs
 TCLP Metals
 TCLP

Metals
TECP pesticides and herbicides
pH, nutrients and herbicides

ANALYSES

Metals and he.oids,
pH, moisture, fat pt., phenol
Cyanide and sulphide

[illegible]

Preserved in: Lab ☐ Field ☐

Cooler Temperature: _____ °C

Notes and Special Instructions: _____

Relinquished By: Brian L. Green Date/Time 11/12/97 11:30 Received By: William J. Green Date/Time 11/12/97 11:30 A.M.
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____



JAN 20 1998

MONTHLY STATUS REPORT

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA – Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

Report Date: January 15, 1998

Client: Forest Preserve District – DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E.
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

Reporting Period: December 1997

Progress Made This Reporting Period and Documents Submitted:

- During December 1997, Montgomery Watson completed construction of the Leachate Collection System (LCS) at the Blackwell Landfill. The final Construction Progress Meeting was held on December 3, 1997. Minutes of this meeting are attached.
- On December 3, 1997, the U.S. EPA, FPD, Tetra Tech EM, and Montgomery Watson conducted a pre-final inspection of the LCS and Cap Repair Areas No.3 and 5. The pre-final inspection meeting included the initial start-up of the LCS.
- On December 4, 1997, Montgomery Watson submitted the Revised Addenda to Sampling Plans to the U.S.EPA for the investigation of the North Stormwater Collection Pipe and Sand Pond. The U.S. EPA approved the Revised Addenda in a December 24, 1997 letter.

- On December 5, 1997, Montgomery Watson submitted the Draft Operation and Maintenance (O&M) Plan. The O&M Plan provides a comprehensive guide for post-closure O&M and monitoring activities.
- In a December 5, 1997 letter to the U.S. EPA, Montgomery Watson submitted validated analytical results from the September 23, 1997 sampling of manhole MH-20.
- From December 3 to December 16, 1997, the LCS was operated and the LCS holding tank was filled with leachate. On December 17, 1997, Montgomery Watson collected the first leachate sample from the holding tank. The sample was collected in accordance with the December 1997 draft O&M Plan, and was analyzed in accordance with the provisions established in the leachate disposal permit. The analytical results are attached.

Agency Reviews/Approvals Pending:

- Review/approval of the December 5, 1997 Draft O&M Plan.

Problems or Potential Problems, and Recommendations:

- None

Upcoming Activities Planned:

- Preparation of a Technical Memorandum summarizing the installation of five additional groundwater monitoring wells and the additional well integrity investigations undertaken prior to the first round of the Quarterly Groundwater Monitoring Program.
- Data validation of the analytical results from the first round of the groundwater quarterly sampling event undertaken from November 3 through November 11, 1997.
- Continuation of a literature review for the Arboreal Impact Investigation.
- Submission of the Final O&M Plan upon receiving comments from the U.S.EPA.
- Preparation of the Construction Completion Report summarizing construction of the LCS and completed Cap Repairs.
- Continued operation of the LCS.
- Submittal of the Pre-Final Inspection Report.

Personnel Changes:

- None to report.

Analytical/Laboratory:

- An analytical data package from the analysis of a leachate sample collected from the LCS leachate holding tank on December 17, 1997 is attached.

Schedule:

The schedule of deliverables to U.S. EPA, to date, is shown below.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
1. Draft Expedited LCS Work Plans and Pre-Final Design Plans and Pre-Final Design	April 22, 1996	April 17, 1996
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13. Deed Restriction	—	August 5, 1997

DELIVERABLE	TARGET DATE	SUBMITTED DATE
14. Initiate Construction of Response Actions	Fifteen (15) days after Pre-Construction Inspection and Meeting	August 4, 1997
15. Completion of Construction	In accordance with the construction schedule in the approved Final Design	LCS: December 3, 1997
16. Pre-Final Inspection	No later than fifteen (15) days after completion of construction	December 3, 1997
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	
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20. Completion of Work Report	Sixty (60) days after Final Inspection	

cc: Rick Lanham – Illinois Environmental Protection Agency
Kostas Dovantzis – Tetra Tech EM, Inc.
Jerry Hartwig – Forest Preserve District of DuPage County
Kurt Lindland, Assistant Regional Counsel – U.S. EPA

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1252008 050101

MEETING NOTES



MONTGOMERY WATSON

Date: December 22, 1997

Date of Meeting: December 3, 1997

Time: 9:00 a.m.

Location: Blackwell Landfill

Reference: 1252008.051801

Attendees: Joe Benedict, Forest Preserve District (FPD)
Jerry Hartwig, FPD
Jim Sheffler, FPD
Michael Bellot, U.S. EPA
Larry Schmitt, U.S. EPA
Kostas Dovantis, Tetra Tech
Kevin Schnoes, Tetra Tech
Jerry Pionessa, Envirocon, Inc.
Pete Vagt, MWA
Walter Buettner, MWA
Dean Free, MWA
John McDonough, MWCI
Brian Griesemer, MWA

Subject: Construction Progress Meeting
Blackwell Landfill NPL Site

Notes:

1. Walter Buettner asked the Attendees whether they had any issues regarding the distributed November 26, 1997 Construction Progress Meeting Notes. No issues were raised.
2. Jerry Pionessa indicated that grading and placement of gravel around lift station LS01, and final grading surrounding extraction well EW03 will be completed by the end of next week. Mr. Pionessa also indicated that security fencing

surrounding the compressor/control building will be erected, and final survey of all as-builts will be completed by the end of next week.

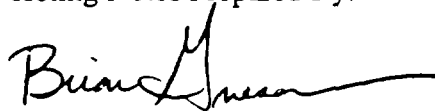
3. Mr. Pionessa indicated that a manual bleedoff valve on the air pressure line, and leachate sample ports on each wellhead have been installed. Mr. Pionessa also indicated that final grading on the top of Mt. Hoy and the southern part of the landfill has been completed.
4. Mr. Buettner indicated that Montgomery Watson has completed an evaluation of the design freeboard in the leachate holding tank, and has determined that no modifications will be necessary.
5. John McDonough indicated that the excavated construction debris from the dripleg DL01 excavation will be disposed of by the end of the week.
6. Mr. McDonough indicated that Montgomery Watson is in the process of evaluating insulation options for the extraction well vaults.

Note: This is the final Construction Progress Meeting for 1997.

Action Items:

None

Meeting Notes Prepared By:



Brian Griesemer
Montgomery Watson



Walter G. Buettner
Montgomery Watson

cc: Rick Lanham, IEPA
Kurt Lindland, U.S. EPA Assistant Regional Counsel

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1252008.051801



**First
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Laboratories, Inc.**

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233
IEPA Certification #100292

Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008 058101
Sample Number: 47921
Sample Description: BW-LCS-01

Date Received: 12/17/97
Date Taken: 12/17/97
Date Reported: 12/29/97

Analyte	Result	Units	Date Analyzed	Method
BOD	11,000	mg/L	12/18/97	405.1
COD	15,000	mg/L	12/02/97	410.4
N. Ammonia	427	mg/L	12/18/97	350.2
Oil & Grease	526	mg/L	12/22/97	1664
pH @ 25°C	6.69	units	12/19/97	9045C
Phenols	0.44	mg/L	12/19/97	9065
Total Dissolved Solids	13,200	mg/L	12/19/97	160.1
Total Suspended Solids	417	mg/L	12/22/97	160.2
Arsenic	0.008	mg/L	12/23/97	6010A
Barium	0.273	mg/L	12/23/97	6010A
Boron	4.81	mg/L	12/23/97	6010A
Cadmium	0.082	mg/L	12/23/97	6010A
Chromium	0.008	mg/L	12/23/97	6010A
Copper	<0.01	mg/L	12/23/97	6010A
Iron	550	mg/L	12/23/97	6010A
Lead	0.100	mg/L	12/23/97	6010A
Manganese	8.50	mg/L	12/23/97	6010A
Mercury	<0.0005	mg/L	12/23/97	7470A
Nickel	0.131	mg/L	12/23/97	6010A
Selenium	<0.02	mg/L	12/23/97	6010A
Silver	<0.001	mg/L	12/23/97	6010A
Zinc	19.9	mg/L	12/23/97	6010A



**First
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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.058101
Sample Number: 47921
Sample Description: BW-LCS-01

Date Received: 12/17/97
Date Taken: 12/17/97
Date Reported: 12/29/97

Analyte	Result	Units	Flags
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Volatile Organic Compounds Method 8260A

Analysis Date: 12/24/97

Acetone	2,420	ug/L	
Benzene	26.1	ug/L	J
Bromodichloromethane	< 50.0	ug/L	
Bromoform	< 50.0	ug/L	
Bromomethane	< 100	ug/L	
2-Butanone	7,410	ug/L	
Carbon disulfide	< 50.0	ug/L	
Carbon tetrachloride	< 50.0	ug/L	
Chlorobenzene	10.6	ug/L	J
Chlorodibromomethane	< 50.0	ug/L	
Chloroethane	< 100	ug/L	
Chloroform	< 50.0	ug/L	
Chloromethane	< 100	ug/L	
1,1-Dichloroethane	< 50.0	ug/L	
1,2-Dichloroethane	< 50.0	ug/L	
1,1-Dichloroethene	< 50.0	ug/L	
cis-1,2-Dichloroethene	116	ug/L	
trans-1,2-Dichloroethene	< 50.0	ug/L	
1,2-Dichloropropane	< 50.0	ug/L	
cis-1,3-Dichloropropene	< 50.0	ug/L	
trans-1,3-Dichloropropene	< 50.0	ug/L	
Ethyl benzene	38.4	ug/L	J
2-Hexanone	< 100	ug/L	
4-Methyl-2-pentanone	144	ug/L	
Methylene chloride	< 50.0	ug/L	
Styrene	< 50.0	ug/L	



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IEPA Certification #100292

Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.058101
Sample Number: 47921
Sample Description: BW-LCS-01

Date Received: 12/17/97
Date Taken: 12/17/97
Date Reported: 12/29/97

Analyte	Result	Units	Flags
1,1,2,2-Tetrachloroethane	< 50.0	ug/L	
Tetrachloroethene	< 50.0	ug/L	
Toluene	197	ug/L	
1,1,1-Trichloroethane	< 50.0	ug/L	
1,1,2-Trichloroethane	< 50.0	ug/L	
Trichloroethene	23.7	ug/L	J
Vinyl Acetate	< 100	ug/L	
Vinyl Chloride	< 100	ug/L	
Xylenes (total)	175	ug/L	

Base-Neutral/Acid Compounds Method 8270B

Preparation Date: 12/22/97
Analysis Date: 12/22/97

Acenaphthene	< 50	ug/L
Acenaphthylene	< 50	ug/L
Anthracene	< 50	ug/L
Benzidine	< 50	ug/L
Benzo[a]anthracene	< 50	ug/L
Benzo[b]fluoranthene	< 50	ug/L
Benzo[k]fluoranthene	< 50	ug/L
Benzo[g,h,i]perylene	< 50	ug/L
Benzo[a]pyrene	< 50	ug/L
Benzoic Acid	< 250	ug/L
Benzyl Alcohol	< 100	ug/L
bis(2-chloroethoxy)methane	< 50	ug/L
bis(2-chloroethyl)ether	< 50	ug/L
bis(2-chloroisopropyl)ether	< 50	ug/L
bis(2-ethylhexyl)phthalate	< 50	ug/L



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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.058101
Sample Number: 47921
Sample Description: BW-LCS-01

Date Received: 12/17/97
Date Taken: 12/17/97
Date Reported: 12/29/97

Analyte	Result	Units	Flags
4-Bromophenyl-phenylether	< 50	ug/L	
Butylbenzylphthalate	< 50	ug/L	
4-Chloroaniline	< 50	ug/L	
4-Chloro-3-methylphenol	< 100	ug/L	
2-Chloronaphthalene	< 50	ug/L	
2-Chlorophenol	< 50	ug/L	
4-Chlorophenyl-phenylether	< 50	ug/L	
Chrysene	< 50	ug/L	
Dibenz[a,h]anthracene	< 50	ug/L	
Dibenzofuran	< 50	ug/L	
1,2-Dichlorobenzene	< 50	ug/L	
1,3-Dichlorobenzene	< 50	ug/L	
1,4-Dichlorobenzene	< 50	ug/L	
3,3-Dichlorobenzidine	< 100	ug/L	
2,4-Dichlorophenol	< 50	ug/L	
Diethylphthalate	< 50	ug/L	
2,4-Dimethylphenol	< 50	ug/L	
Dimethylphthalate	< 50	ug/L	
Di-n-butylphthalate	< 50	ug/L	
4,6-Dinitro-2-methylphenol	< 250	ug/L	
2,4-Dinitrophenol	< 250	ug/L	
2,4-Dinitrotoluene	< 50	ug/L	
2,6-Dinitrotoluene	< 50	ug/L	
Di-n-octylphthalate	< 50	ug/L	
Fluoranthene	< 50	ug/L	
Fluorene	< 50	ug/L	
Hexachlorobenzene	< 50	ug/L	
Hexachlorobutadiene	< 50	ug/L	
Hexachlorocyclopentadiene	< 50	ug/L	



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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.058101
Sample Number: 47921
Sample Description: BW-LCS-01

Date Received: 12/17/97
Date Taken: 12/17/97
Date Reported: 12/29/97

Analyte	Result	Units	Flags
Hexachloroethane	< 50	ug/L	
Indeno[1,2,3-cd]pyrene	< 50	ug/L	
Isophorone	< 50	ug/L	
2-Methylnaphthalene	< 50	ug/L	
2-Methylphenol	< 50	ug/L	
3&4-Methylphenol	229	ug/L	
Naphthalene	< 50	ug/L	
2-Nitroaniline	< 250	ug/L	
3-Nitroaniline	< 250	ug/L	
4-Nitroaniline	< 100	ug/L	
Nitrobenzene	< 50	ug/L	
2-Nitrophenol	< 50	ug/L	
4-Nitrophenol	< 250	ug/L	
N-Nitrosodimethylamine	< 50	ug/L	
N-Nitroso-di-n-propylamine	< 50	ug/L	
n-Nitrosodiphenylamine	< 50	ug/L	
Pentachlorophenol	< 250	ug/L	
Phenanthrene	< 50	ug/L	
Phenol	124	ug/L	
Pyrene	< 50	ug/L	
Pyridine	< 250	ug/L	
1,2,4-Trichlorobenzene	< 50	ug/L	
2,4,5-Trichlorophenol	< 50	ug/L	
2,4,6-Trichlorophenol	< 50	ug/L	



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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.058101
Sample Number: 47921
Sample Description: BW-LCS-01

Date Received: 12/17/97
Date Taken: 12/17/97
Date Reported: 12/29/97

Analyte	Result	Units	Flags
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Pesticides Method 8081

Preparation Date: 12/23/97
Analysis Date: 12/29/97

Aldrin	< 0.05	ug/L	
alpha-BHC	< 0.05	ug/L	
beta-BHC	< 0.05	ug/L	
delta-BHC	< 0.05	ug/L	
Lindane (gamma-BHC)	< 0.05	ug/L	
alpha-Chlordane	< 0.50	ug/L	
gamma-Chlordane	< 0.50	ug/L	
4,4'-DDD	< 0.10	ug/L	
4,4'-DDE	< 0.10	ug/L	
4,4-DDT	< 0.10	ug/L	
Dieldrin	< 0.10	ug/L	
Endosulfan I	< 0.05	ug/L	
Endosulfan II	< 0.10	ug/L	
Endosulfan sulfate	< 0.10	ug/L	
Endrin	< 0.10	ug/L	
Endrin aldehyde	< 0.10	ug/L	
Endrin ketone	< 0.10	ug/L	
Heptachlor	< 0.05	ug/L	
Heptachlor epoxide	< 0.05	ug/L	
Methoxychlor	< 0.50	ug/L	
Toxaphene	< 1.0	ug/L	



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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.058101
Sample Number: 47922
Sample Description: BW-TBLCS-01

Date Received: 12/17/97
Date Taken: N/A
Date Reported: 12/29/97

Analyte	Result	Units	Flags
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Volatile Organic Compounds Method 8260A

Analysis Date: 12/23/97

Acetone	< 10.0	ug/L	
Benzene	< 5.0	ug/L	
Bromodichloromethane	< 5.0	ug/L	
Bromoform	< 5.0	ug/L	
Bromomethane	< 10.0	ug/L	
2-Butanone	< 10.0	ug/L	
Carbon disulfide	< 5.0	ug/L	
Carbon tetrachloride	< 5.0	ug/L	
Chlorobenzene	< 5.0	ug/L	
Chlorodibromomethane	< 5.0	ug/L	
Chloroethane	< 10.0	ug/L	
Chloroform	< 5.0	ug/L	
Chloromethane	< 10.0	ug/L	
1,1-Dichloroethane	< 5.0	ug/L	
1,2-Dichloroethane	< 5.0	ug/L	
1,1-Dichloroethene	< 5.0	ug/L	
cis-1,2-Dichloroethene	< 5.0	ug/L	
trans-1,2-Dichloroethene	< 5.0	ug/L	
1,2-Dichloropropane	< 5.0	ug/L	
cis-1,3-Dichloropropene	< 5.0	ug/L	
trans-1,3-Dichloropropene	< 5.0	ug/L	
Ethyl benzene	< 5.0	ug/L	
2-Hexanone	< 10.0	ug/L	
4-Methyl-2-pentanone	< 10.0	ug/L	



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Analytical Report

Client: MONTGOMERY WATSON
Project ID: 1252008.058101
Sample Number: 47922
Sample Description: BW-TBLCS-01

Date Received: 12/17/97
Date Taken: N/A
Date Reported: 12/29/97

Analyte	Result	Units	Flags
Methylene chloride	< 5.0	ug/L	
Styrene	< 5.0	ug/L	
1,1,2,2-Tetrachloroethane	< 5.0	ug/L	
Tetrachloroethene	< 5.0	ug/L	
Toluene	< 5.0	ug/L	
1,1,1-Trichloroethane	< 5.0	ug/L	
1,1,2-Trichloroethane	< 5.0	ug/L	
Trichloroethene	< 5.0	ug/L	
Vinyl Acetate	< 10.0	ug/L	
Vinyl Chloride	< 10.0	ug/L	
Xylenes (total)	< 5.0	ug/L	

CHAIN OF CUSTODY RECORD



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E-mail: firstenv@mcs.com
IEPA Certification #100292

COMPANY NAME: Montgomery Watson
ADDRESS: 2100 Corporate Drive
PHONE: (630) 691-5000 FAX: (630) 691-5133
CONTACT NAME: BRIAN GRIESEMER
SAMPLED BY: BRIAN GRIESEMER

		ANALYSES							COMMENTS	LAB I.D.
		MATRIX	PH, BOD, COD, TSS, TDS	Acidophiles, Bacteria	VOCs, Metals	Phenols, Oil/Grease	Ammonia (as Nitrogen)			
Project I.D.	<u>1252008_058101</u>									
Send Report To:	<u>BRIAN GRIESEMER</u>									
DATE/TIME TAKEN	SAMPLE DESCRIPTION									
<u>12/17/97/18:00</u>	<u>BW-LCS-01</u>	<u>W*</u>	<u>A</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>Standard Turnaround</u>	<u>47921</u>
	<u>OW - TB LCS - 01</u>									<u>47922</u>

Matrix Codes: S = Soil W = Water O = Other

Preserved in: Lab ☐ Field ☐ Cooler Temperature: _____ °C

Notes and Special Instructions: + Leachate, Standard Turnaround Time

Relinquished By: Brian Greiser Date/Time 12/17/97 16:30 Received By: Heather Norek Date/Time 12/17/97 16:30
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____
Relinquished By: _____ Date/Time _____ Received By: _____ Date/Time _____



MONTGOMERY WATSON

MONTHLY STATUS REPORT FEB 11 1998

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA - Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

Report Date: February 11, 1998

Client: Forest Preserve District - DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E. *WGB*
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

Reporting Period: January 1998

Progress Made This Reporting Period and Documents Submitted:

- On January 7, 1998, Montgomery Watson submitted the pre-final inspection report. This report outlined outstanding construction items identified during the December 3, 1997, Pre-Final Inspection.
- On January 12, 1998, 10,000 gallons of leachate in the LCS holding tank was disposed of at the Wheaton Sanitary District WWTP.
- The LCS was operated from January 20 through January 22, 1998, and 10,000 gallons of leachate was collected in holding tank. On January 23, 1998, Montgomery Watson collected a second leachate sample from the LCS holding tank. The sample was collected and analyzed in accordance with the December 1997 draft O&M Plan and the provisions established in the leachate disposal permit, respectively. The analytical results are attached.

Agency Reviews/Approvals Pending:

- Review/approval of the December 5, 1997, Draft O&M Plan.

Problems or Potential Problems, and Recommendations:

- None

Upcoming Activities Planned:

- Preparation of a Monitoring Well Assessment Report summarizing the installation of five additional groundwater monitoring wells and the additional well integrity investigations undertaken prior to the first round of the Quarterly Groundwater Monitoring Program.
- Preparation of the Quarterly Groundwater Monitoring Results Report documenting the first round of sampling event undertaken from November 3 through November 11, 1997. Validated analytical results from the first round of the groundwater quarterly sampling will be included in this report.
- Conducting the North Stormwater Pipe Investigation and surface water sampling of Sand Lake.
- Preparation and submission of Addendum No. 5 to the Agency approved August 1996 Quality Assurance Project Plan (QAPP) that will address lower laboratory analytical PQLs. The lower PQLs were requested in a December 24, 1997, letter from the U.S. EPA.
- Preparation of the second round of the quarterly groundwater monitoring program will be scheduled upon U.S. EPA's approval of the QAPP Addendum No. 5.
- Continuation of a literature review for the Arboreal Impact Investigation.
- Preparation of the Final O&M Plan upon receiving comments from the U.S. EPA.
- Preparation of the Construction Completion Report summarizing the construction completion of the LCS and Cap Repairs.
- Preparation of the remaining construction work on Cap Repair Areas 1, 2 and 4 for the upcoming 1998 construction season.
- Preparation of a work plan for a proposed natural attenuation study to evaluate the potential for intrinsic remediation to mitigate the organic contaminants of concern in groundwater.

- Continued batch operation of the LCS in accordance with the December 5, 1997, draft O&M Plan.

Personnel Changes:

- None to report.

Analytical/Laboratory:

- An analytical data package from the analysis of a leachate sample collected from the LCS leachate holding tank on January 23, 1998, is attached.

Schedule:

The schedule of deliverables to U.S. EPA, to date, is shown below.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
1. Draft Expedited LCS Work Plans and Pre-Final Design Plans and Pre-Final Design	April 22, 1996	April 17, 1996
2. Draft Predesign Investigations and Cap Repair Work Plans	April 22, 1996	April 19, 1996
3. Final Predesign Investigations and Cap Repair Work Plans	—	August 15, 1996
4. Final Predesign Investigation and Cap Repair Work Plans	May 31, 1996, or as amended by Work Plan approval	July 3, 1996
5. Technical Memorandum on Predesign Investigation	—	January 10, 1997
6. Expedited LCS Final Design	As soon as possible after receiving U.S. EPA comments on the Work Plan and Pre-Final Design	February 12, 1997
7. Predesign Report	—	April 10, 1997
8. Revised Expedited LCS Final Design	—	May 2, 1997
9. Final Cap Repair 100% Design Report	—	June 3, 1997
10. Award Contract(s) for the Response Actions	As established in the schedule in the approved Cap Repair Final Design	June 26, 1997
11. Pre-Construction Inspection and Meeting	—	July 15, 1997
12. Revised Predesign Report		July 25, 1997

DELIVERABLE	TARGET DATE	SUBMITTED DATE
13. Deed Restriction	—	August 5, 1997
14. Initiate Construction of Response Actions	Fifteen (15) days after Pre-Construction Inspection and Meeting	August 4, 1997
15. Completion of Construction	In accordance with the construction schedule in the approved Final Design	LCS: December 3, 1997
16. Pre-Final Inspection	No later than fifteen (15) days after completion of construction	December 3, 1997
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	January 7, 1998
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	
19. Final O&M Plan	No later than Pre-Final Inspection	
20. Completion of Work Report	Sixty (60) days after Final Inspection	

cc: Rick Lanham – Illinois Environmental Protection Agency
Kostas Dovantzis – Tetra Tech EM, Inc.
Jerry Hartwig – Forest Preserve District of DuPage County
Kurt Lindland, Assistant Regional Counsel – U.S. EPA

BPG/rf/WGB
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Analytical Report

Client:	MONTGOMERY WATSON	Date Received:	01/23/98
Project ID:	1252008.058101	Date Taken:	01/23/98
Sample Number:	49547	Date Reported:	02/02/98
Sample Description:	BW-LCS02		

Analyte	Result	Units	Date Analyzed	Method
BOD-5 Day	10,000	mg/L	01/23/98	405.1
COD	13,300	mg/L	01/30/98	410.4
Nitrogen Ammonia	339	mg/L	01/30/98	350.2
Oil & Grease	153	mg/L	02/02/98	9070
pH @ 25°C, 1:10	6.61	units	01/26/98	9045C
Phenol	1.76	mg/L	01/29/98	9065
Solids, Total Dissolved	11,400	mg/L	01/29/98	160.1
Solids, Total Suspended	476	mg/L	02/02/98	160.2
Arsenic	<0.002	mg/L	01/30/98	6010A
Barium	0.304	mg/L	01/30/98	6010A
Boron	3.87	mg/L	01/30/98	6010A
Cadmium	0.051	mg/L	01/30/98	6010A
Chromium	0.010	mg/L	01/30/98	6010A
Copper	<0.01	mg/L	01/30/98	6010A
Iron	542	mg/L	01/30/98	6010A
Lead	0.066	mg/L	01/30/98	6010A
Manganese	8.72	mg/L	01/30/98	6010A
Mercury	<0.0005	mg/L	01/30/98	7470A
Nickel	0.109	mg/L	01/30/98	6010A
Selenium	<0.02	mg/L	01/30/98	6010A
Silver	<0.001	mg/L	01/30/98	6010A
Zinc	18.5	mg/L	01/30/98	6010A



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Bartlett Division
850 West Bartlett Rd.
Bartlett, IL 60103
Tel: (630) 289-3100
Fax: (630) 289-5445

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

ANALYTICAL REPORT

Mr. Walter Buettner, P.E.
MONTGOMERY WATSON
2100 Corporate
Addison, IL 60101

02/05/1998

Sample No. : 456758

NET Job No.: 98.01459

Sample Description: BW-LCS02A
Blackwell Forest Preserve

Date Taken: 02/05/1998
Time Taken: 11:15

Date Received: 02/05/1998
Time Received: 11:30

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Analytical Method
Cyanide, total	0.014		mg/L	0.002	02/05/1998	tdw	335.2(3) 9010(1)



MONTGOMERY WATSON

MONTHLY STATUS REPORT

MAR 26 1998

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA – Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

Report Date: March 23, 1998

Client: Forest Preserve District – DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E. *WGB*
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

Reporting Period: February 1998

Progress Made This Reporting Period and Documents Submitted:

- On February 3, 1998, Montgomery Watson submitted Addendum No. 5 to the Agency approved August 1996 Quality Assurance Project Plan (QAPP). Addendum No. 5 addresses lower laboratory analytical PQLs for quarterly groundwater sampling which were requested in a December 24, 1997, U.S. EPA letter.
- On February 4, 1998, Montgomery Watson submitted unvalidated groundwater results from the first round of the quarterly sampling program.
- The LCS was operated for four days during February 1998. February is the last month in which the LCS will be operated in a batch mode, as outlined in the December 1997 draft O&M Plan. During this period, approximately 30,000 gallons of leachate were collected in the holding tank. On February 12, 1998, Montgomery Watson collected a third leachate sample from the LCS holding tank. The sample was collected and analyzed in accordance with the December

1997 draft O&M Plan and the provisions established in the leachate disposal permit, respectively. The analytical results are attached.

- Leachate collected in the LCS holding tank was disposed of at the Wheaton Sanitary District WWTP on February 6, 11, and 27, 1998 in approximately 10,000 gallon shipments.
- On February 18, 1998, Montgomery Watson submitted a proposed work plan for a natural attenuation study to evaluate the potential for intrinsic remediation to mitigate the organic contaminants of concern in groundwater.
- On February 23, 1998, Montgomery Watson submitted a Monitoring Well Assessment Report summarizing the installation of five additional groundwater monitoring wells and well integrity investigations undertaken prior to the first round of the Quarterly Groundwater Monitoring Program.
- On February 25, 1998, the FPD received comments on the draft O&M Plan from the U.S. EPA.

Agency Reviews/Approvals Pending:

- Review/approval of the submitted February 4, 1998 Addendum No. 5 to the Agency approved August 1996 Quality Assurance Project Plan (QAPP).
- Review/approval of the submitted February 18, 1998 proposed work plan for a natural attenuation study.

Problems or Potential Problems, and Recommendations:

- None

Upcoming Activities Planned:

- Preparation of the Quarterly Groundwater Monitoring Results Report documenting the first round of sampling event undertaken from November 3 through November 11, 1997. Validated analytical results from the first round of the groundwater quarterly sampling will be included in this report.
- Conducting the North Stormwater Pipe Investigation and surface water sampling of Sand Lake.
- Preparation of the second round of the quarterly groundwater monitoring program will be scheduled upon U.S. EPA's approval of the QAPP Addendum No. 5.
- Continuation of a literature review for the Arboreal Impact Investigation.

- Preparation of the Final O&M Plan.
- Preparation of the Construction Completion Report summarizing the 1997 construction of the LCS and Cap Repairs.
- Preparation of the remaining construction work on Cap Repair Areas 1, 2 and 4 for the upcoming 1998 construction season.
- Continued operation of the LCS in accordance with the December 5, 1997, draft O&M Plan.

Personnel Changes:

- None to report.

Analytical/Laboratory:

- An analytical data package from the analysis of a leachate sample collected from the LCS leachate holding tank on February 12, 1998, is attached.

Schedule:

The schedule of deliverables to U.S. EPA, to date, is shown below.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
1. Draft Expedited LCS Work Plans and Pre-Final Design Plans and Pre-Final Design	April 22, 1996	April 17, 1996
2. Draft Predesign Investigations and Cap Repair Work Plans	April 22, 1996	April 19, 1996
3. Final Predesign Investigations and Cap Repair Work Plans	—	August 15, 1996
4. Final Predesign Investigation and Cap Repair Work Plans	May 31, 1996, or as amended by Work Plan approval	July 3, 1996
5. Technical Memorandum on Predesign Investigation	—	January 10, 1997
6. Expedited LCS Final Design	As soon as possible after receiving U.S. EPA comments on the Work Plan and Pre-Final Design	February 12, 1997
7. Predesign Report	—	April 10, 1997

DELIVERABLE	TARGET DATE	SUBMITTED DATE
8. Revised Expedited LCS Final Design	—	May 2, 1997
9. Final Cap Repair 100% Design Report	—	June 3, 1997
10. Award Contract(s) for the Response Actions	As established in the schedule in the approved Cap Repair Final Design	June 26, 1997
11. Pre-Construction Inspection and Meeting	—	July 15, 1997
12. Revised Predesign Report	—	July 25, 1997
13. Deed Restriction	—	August 5, 1997
14. Initiate Construction of Response Actions	Fifteen (15) days after Pre-Construction Inspection and Meeting	August 4, 1997
15. Completion of Construction	In accordance with the construction schedule in the approved Final Design	LCS: December 3, 1997
16. Pre-Final Inspection	No later than fifteen (15) days after completion of construction	December 3, 1997
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	January 7, 1998
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	Not Scheduled
19. Final O&M Plan	No later than Pre-Final Inspection	
20. Completion of Work Report	Sixty (60) days after Final Inspection	

cc: Rick Lanham – Illinois Environmental Protection Agency
Kostas Dovantzis – Tetra Tech EM, Inc.
Jerry Hartwig – Forest Preserve District of DuPage County
Kurt Lindland, Assistant Regional Counsel – U.S. EPA

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MONTHLY STATUS REPORT

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA – Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

Report Date: April 20, 1998

Client: Forest Preserve District – DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E. *WGB*
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

Reporting Period: March 1998

Progress Made This Reporting Period and Documents Submitted:

- The leachate collection system (LCS) was operated for 15 days during March 1998. During this period, approximately 65,000 gallons of leachate was collected and disposed of at the Wheaton Sanitary District Waste Water Treatment Plant (WWTP). To date, approximately 101,500 gallons of leachate has been disposed of since the LCS began operation in December 1997.
- On March 23, 1998, the Forest Preserve District (FPD) received U.S. EPA comments on the proposed natural attenuation study, the August 1996 Quality Assurance Project Plan (QAPP), and Addendum No. 5 to the QAPP.
- On March 20, 1998, Montgomery Watson identified LCS operating problems at lift station LS01. On March 24, 1998, Montgomery Watson held a post-construction meeting with the LCS subcontractors (Envirocon, Inc. and RTE Environmental, Inc.) to decide upon troubleshooting and repair procedures. Post-construction meeting notes are attached. On March 26, 1998, post-construction

work revealed that an isolation valve was incorrectly installed on the leachate pressure line at LS01, and the repair were made.

Agency Reviews/Approvals Pending:

- None

Problems or Potential Problems, and Recommendations:

- None

Upcoming Activities Planned:

- Meeting among FPD, U.S. EPA, IEPA, Tetra Tech and Montgomery Watson on April 8, 1998 to review progress and kickoff 1998 activities.
- Modification and re-submittal of the draft O&M Plan.
- Modification and re-submittal of the work plan for the proposed natural attenuation study.
- Preparation and submittal of Addendum No. 6 to the Quality Assurance Project Plan (QAPP) outlining laboratory procedures for the proposed natural attenuation study.
- Modification and re-submittal of the QAPP and Addendum No. 5 to the QAPP.
- Preparation and submittal of the Quarterly Groundwater Monitoring Results Report documenting the first round of sampling event undertaken from November 3 through November 11, 1997.
- Preparation and submittal of the Construction Completion Report for the 1997 construction season.
- Conducting the North Stormwater Pipe Investigation and surface water sampling of Sand Lake.
- Conducting the second round of the quarterly groundwater monitoring program upon U.S. EPA's approval of the QAPP Addendum No. 5.
- Continuation of a literature review for the Arboreal Impact Investigation.
- Preparation of the remaining construction work on Cap Repair Areas 1, 2, and 4 for the upcoming 1998 construction season.

- Continued operation of the LCS in accordance with the December 5, 1997, draft O&M Plan.

Personnel Changes:

- None to report.

Analytical/Laboratory:

- None.

Schedule:

The schedule of deliverables to U.S. EPA, to date, is shown below.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
1. Draft Expedited LCS Work Plans and Pre-Final Design Plans and Pre-Final Design	April 22, 1996	April 17, 1996
2. Draft Predesign Investigations and Cap Repair Work Plans	April 22, 1996	April 19, 1996
3. Final Predesign Investigations and Cap Repair Work Plans	—	August 15, 1996
4. Final Predesign Investigation and Cap Repair Work Plans	May 31, 1996, or as amended by Work Plan approval	July 3, 1996
5. Technical Memorandum on Predesign Investigation	—	January 10, 1997
6. Expedited LCS Final Design	As soon as possible after receiving U.S. EPA comments on the Work Plan and Pre-Final Design	February 12, 1997
7. Predesign Report	—	April 10, 1997
8. Revised Expedited LCS Final Design	—	May 2, 1997
9. Final Cap Repair 100% Design Report	—	June 3, 1997
10. Award Contract(s) for the Response Actions	As established in the schedule in the approved Cap Repair Final Design	June 26, 1997
11. Pre-Construction Inspection and Meeting	—	July 15, 1997
12. Revised Predesign Report	—	July 25, 1997

DELIVERABLE	TARGET DATE	SUBMITTED DATE
13. Deed Restriction	—	August 5, 1997
14. Initiate Construction of Response Actions	Fifteen (15) days after Pre-Construction Inspection and Meeting	August 4, 1997
15. Completion of Construction	In accordance with the construction schedule in the approved Final Design	LCS: December 3, 1997
16. Pre-Final Inspection	No later than fifteen (15) days after completion of construction	December 3, 1997
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	January 7, 1998
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	Not Scheduled
19. Final O&M Plan	No later than Pre-Final Inspection	
20. Completion of Work Report	Sixty (60) days after Final Inspection	
21. Natural Attenuation Study	June 15, 1998	

cc: Rick Lanham – Illinois Environmental Protection Agency
 Manoj Mishra – Tetra Tech EM, Inc.
 Jerry Hartwig – Forest Preserve District of DuPage County
 Kurt Lindland, Assistant Regional Counsel – U.S. EPA
 David Barritt - Chapman and Cutler

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MEETING NOTES



MONTGOMERY WATSON

Date: April 2, 1998

Date of

Meeting: March 25, 1998

Time: 9:00 a.m.

Location: Blackwell Landfill

Reference: 1252008.051801

Attendees: Jerry Hartwig, Forest Preserve District (FPD)

Jim Sheffler, FPD

Jerry Pionessa, Envirocon, Inc.

Peter Vagt, MWA

Walter Buettner, MWA

John McDonough, MWCI

Subject: Post-Construction Progress Meeting
Blackwell Landfill NPL Site

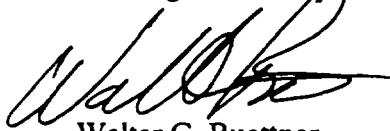
Notes:

1. Walter Buettner and John McDonough indicated that the purpose of the meeting was to discuss the problems recently identified with the leachate collection system (LCS). The current information indicates that the isolation valve at LS01 was incorrectly installed on the pressure leachate line instead of the compressed air line. As well, the current information indicates that the isolation valve was leaking and causing the re-circulation of leachate within LS01. This resulted in very little leachate from the pressure LCS line reaching the LCS holding tank.
2. Walter Buettner and John McDonough pointed out that ball check valves were incorrectly substituted for swing check valves on the LCS leachate line within the extraction well vaults, and that a number of ball valves on the air pressure line were functioning improperly.

The Attendees agreed that upon the following repair procedures:

- Envirocon would excavate the isolation valve and confirm the suspected problem. If the problem was confirmed, Envirocon would re-plumb the LCS line to repair the problem;
- Envirocon would install a permanent pressure gauge on the pressure leachate line at LS01;
- Envirocon would replace the rubber gasket on LS01;
- Envirocon would install the new swing check valves on the three quarter inch tubing coming out of the well head assembly instead of on the two inch diameter pipe. As a labor saving measure, the FPD agreed that the existing ball check valves could be left in-place.
- Envirocon would clean, repair or replace the non-functioning ball valves on the compressed air line;
- MWA and Envirocon would test the pressure LCS line following repair. This would consist of running lift station LS01, filling the pressure LCS line, and confirming with the pressure gauge that the repaired LCS line held pressure;
- MWA and Envirocon would pump LS01 alone and fill the LCS holding tank to confirm pump stroke to volume conversion factor;
- The FPD would test an alternative pneumatic pump in extraction well EW08 to determine if an alternative pump would pump suspended silt and sand in the leachate more effectively.

Meeting Notes Prepared By:



Walter G. Buettner
Montgomery Watson

cc: Michael Bellot, U.S. EPA
Rick Lanham – Illinois Environmental Protection Agency
Kostas Dovantzis – Tetra Tech EM, Inc.
Kurt Lindland, Assistant Regional Counsel – U.S. EPA

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MONTHLY STATUS REPORT

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA - Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

Report Date: May 18, 1998

Client: Forest Preserve District - DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E. *WGB*
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

Reporting Period: April 1998

Progress Made This Reporting Period and Documents Submitted:

- The leachate collection system (LCS) was operated for 20 days during April 1998. During this period, approximately 106,000 gallons of leachate was collected and disposed of at the Wheaton Sanitary District Waste Water Treatment Plant (WWTP). To date, approximately 207,300 gallons of leachate has been disposed of since the LCS began operation in December 1997.
- On April 8, 1998, the FPD, U.S. EPA, IEPA, Tetra Tech EM, Inc., and Montgomery Watson held a meeting to review work progress and to kickoff 1998 activities.
- On April 21, 1998, Montgomery Watson submitted the Quarterly Groundwater Monitoring Results Report. This report documented the first round of quarterly groundwater sampling undertaken from November 3 through November 11, 1997.

- On April 21, 1998, Montgomery Watson submitted the Anomalous Phenol and Phthalate Concentration Report. This report documented the anomalous phenol and phthalate concentrations detected in groundwater samples collected during the first round of the quarterly groundwater sampling event from November 3 through November 11, 1997.
- On April 24, 1998, Montgomery Watson submitted additional addenda to the Quality Assurance Project Plan (QAPP), including revised pages to QAPP Addendum No. 5, and QAPP Addenda 6 and 7. The revised pages to QAPP Addendum No. 5 were submitted in response to comments in the U.S. EPA's March 23, 1998 letter. QAPP Addendum No. 6 revised Sections 1, 2, and 3 of the April 1996 QAPP for Pre-Design Investigative Activities, while QAPP Addendum No. 7 provided additional assurance and quality control procedures, and analytical methods for a proposed natural attenuation study.

Agency Reviews/Approvals Pending:

- Approval of the April 24, 1998 QAPP Addendum No. 5.
- Review/approval of the April 24, 1998 QAPP Addenda No. 6 and No. 7.

Problems or Potential Problems, and Recommendations:

- None.

Upcoming Activities Planned:

- Modification and re-submittal of the draft O&M Plan.
- Modification and re-submittal of the work plan for the proposed natural attenuation study.
- Preparation and submittal of the Construction Completion Report for the 1997 construction season.
- Conducting the North Stormwater Pipe Investigation and surface water sampling of Sand Pond.
- Conducting the second round of the quarterly groundwater monitoring program upon U.S. EPA's approval of the QAPP Addendum No. 5.
- Continuation of a literature review for the Arboreal Impact Investigation.
- Preparation of the remaining construction work on Cap Repair Areas 1, 2, and 4 for the upcoming 1998 construction season.

- Continued operation of the LCS in accordance with the December 5, 1997, draft O&M Plan.

Personnel Changes:

- None to report.

Analytical/Laboratory:

- None.

Schedule:

The schedule of deliverables to U.S. EPA, to date, is shown below.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
1. Draft Expedited LCS Work Plans and Pre-Final Design Plans and Pre-Final Design	April 22, 1996	April 17, 1996
2. Draft Predesign Investigations and Cap Repair Work Plans	April 22, 1996	April 19, 1996
3. Final Predesign Investigations and Cap Repair Work Plans	—	August 15, 1996
4. Final Predesign Investigation and Cap Repair Work Plans	May 31, 1996, or as amended by Work Plan approval	July 3, 1996
5. Technical Memorandum on Predesign Investigation	—	January 10, 1997
6. Expedited LCS Final Design	As soon as possible after receiving U.S. EPA comments on the Work Plan and Pre-Final Design	February 12, 1997
7. Predesign Report	—	April 10, 1997
8. Revised Expedited LCS Final Design	—	May 2, 1997
9. Final Cap Repair 100% Design Report	—	June 3, 1997
10. Award Contract(s) for the Response Actions	As established in the schedule in the approved Cap Repair Final Design	June 26, 1997
11. Pre-Construction Inspection and Meeting	—	July 15, 1997
12. Revised Predesign Report	—	July 25, 1997

DELIVERABLE	TARGET DATE	SUBMITTED DATE
13. Deed Restriction	—	August 5, 1997
14. Initiate Construction of Response Actions	Fifteen (15) days after Pre-Construction Inspection and Meeting	August 4, 1997
15. Completion of Construction	In accordance with the construction schedule in the approved Final Design	LCS: December 3, 1997
16. Pre-Final Inspection	No later than fifteen (15) days after completion of construction	December 3, 1997
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	January 7, 1998
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	Not Scheduled
19. Final O&M Plan	No later than Pre-Final Inspection	
20. Completion of Work Report	Sixty (60) days after Final Inspection	
21. Natural Attenuation Study	July 15, 1998	

cc: Rick Lanham – Illinois Environmental Protection Agency
 Manoj Mishra – Tetra Tech EM, Inc.
 Jerry Hartwig – Forest Preserve District of DuPage County
 Kurt Lindland, Assistant Regional Counsel – U.S. EPA
 David Barritt – Chapman and Cutler
 Dick Makarski – Chapman and Cutler

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MONTHLY STATUS REPORT

To: Mr. Mike Bellot
Remedial Project Manager
U.S. EPA – Region 5
77 West Jackson Boulevard, SR-6J
Chicago, Illinois 60604-3590

Report Date: June 18, 1998

Client: Forest Preserve District – DuPage County

MW Project #: 1252008

Site Name/Activity: Blackwell Landfill/Response Actions

Prepared By: Peter J. Vagt, Ph.D., CPG
Walter G. Buettner, P.E.
Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

Reporting Period: May 1998

Progress Made This Reporting Period and Documents Submitted:

- During May 1998, approximately 60,500 gallons of leachate were collected by the leachate collection system (LCS). The leachate was disposed of at the Wheaton Sanitary District Waste Water Treatment Plant (WWTP). To date, approximately 267,750 gallons of leachate have been disposed of since the LCS began operation in December 1997.
- The LCS did not operate between May 15 and 27, 1998 due to a breach in the compressed air conveyance line. The breach was eventually located near extraction well EW01A, and fixed. The breach was attributed to a failed pre-fabricated pipe fitting.
- During May 1998, the FPD and Montgomery Watson conducted routine O&M of the LCS in accordance with the December 1997 Draft O&M Plan.
- On May 14, 1998, Montgomery Watson received verbal comments from the U.S. EPA on the Quality Assurance Project Plan (QAPP) Addenda No. 6 and 7.

Montgomery Watson has verbally responded to the comments on QAPP Addenda No. 6, and is preparing revisions to QAPP Addenda No. 7.

- On May 29, 1998, Montgomery Watson submitted the Revised Draft O&M Plan to the U.S. EPA. The Revised Draft O&M Plan was submitted in response to the U.S. EPA's and IEPA's written comments outlined in a February 25, 1998 letter.

Agency Reviews/Approvals Pending:

- Approval of the April 24, 1998 QAPP Addendum No. 5 and 6.
- Review/approval of the May 29, 1998 Revised Draft O&M Plan.

Problems or Potential Problems, and Recommendations:

- None.

Upcoming Activities Planned:

- Modification of QAPP Addenda No. 7.
- Modification and re-submittal of the work plan for the proposed natural attenuation study, and preparation of Field Sampling Plan Addenda No. 4.
- Preparation of the Construction Completion Report for the 1997 construction season.
- Conducting the North Stormwater Pipe Investigation and surface water sampling of Sand Pond.
- Conducting the second round of the quarterly groundwater monitoring program upon U.S. EPA's approval of QAPP Addenda and the proposed natural attenuation study.
- Continuation of a literature review for the Arboreal Impact Investigation.
- Preparation of the remaining construction work on Cap Repair Areas 1, 2, and 4 for the upcoming 1998 construction season.
- Continued operation of the LCS in accordance with the May 29, 1998, revised draft O&M Plan.

Personnel Changes:

- None to report.

DELIVERABLE	TARGET DATE	SUBMITTED DATE
17. Pre-Final Inspection Report	Fifteen (15) days after completion of Pre-Final Inspection	January 7, 1998
18. Final Inspection	Fifteen (15) days after completion of work identified in Pre-Final Inspection Report	Not Scheduled
19. Final O&M Plan	No later than Pre-Final Inspection	
20. Completion of Work Report	Sixty (60) days after Final Inspection	
21. Natural Attenuation Study	July 15, 1998	

cc: Rick Lanham – Illinois Environmental Protection Agency
Manoj Mishra – Tetra Tech EM, Inc.
Jerry Hartwig – Forest Preserve District of DuPage County
Kurt Lindland, Assistant Regional Counsel – U.S. EPA
David Barritt – Chapman and Cutler
Dick Makarski – Chapman and Cutler

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